

ABSTRACT OF THE DISCLOSURE

An omnidirectional vision sensor includes: an optical system including a body-of-revolution mirror having a convex portion and having a symmetrical structure with respect to a revolution axis, wherein the body-of-revolution mirror includes a cutaway section in the convex portion of the body-of-revolution mirror so as to allow light incident from surroundings of the revolution axis of the body-of-revolution mirror to be collected; and imaging means, including a light-receiving element for receiving the collected light and image processing means for converting an optical image generated from the collected light received by the light-receiving element into image data. The revolution axis of the body-of-revolution mirror and an optic axis of the light-receiving element coincide.